

## California Weather-Hydro Conditions during November 2016

As of November 30, statewide hydrologic conditions were as follows: precipitation, 150 percent of average to date; runoff, 175 percent of average to date; and reservoir storage, 90 percent of average for the date.

Sacramento River Region unimpaired runoff, for Water Year 2017, observed through November 30, 2016 was about 2.0 million acre-feet (MAF), which is about 147 percent of average. In comparison to Water Year 2016, the observed Sacramento River Region unimpaired runoff through November 30, 2015 was about 0.6 MAF, or about 46 percent of average. San Joaquin River Region unimpaired runoff, for Water Year 2017, observed through November 30, 2016 was about 0.5 MAF, which is about 226 percent of average. In comparison to Water Year 2016, the observed San Joaquin River Region unimpaired runoff through November 30, 2015 was about 0.1 MAF, or about 52 percent of average. Tulare Lake Region unimpaired runoff, for Water Year 2017, observed through November 30, 2016 was about 0.07 MAF, which is about 62 percent of average. In comparison to Water Year 2016, the observed Tulare Lake Region unimpaired runoff through November 30, 2015 was about 0.06 MAF, or about 48 percent of average.

On November 30, the Northern Sierra 8-Station Precipitation Index Water Year total was 18.0 inches, which is about 193 percent of the seasonal average to date and 36 percent of an average water year (50.0 inches). During November, the total precipitation for the 8-Stations was 5.4 inches, or about 85 percent of average for the month. Last year on November 30, the Water Year 2016 seasonal total for the 8-Stations was 4.9 inches, or about 53 percent of average.

On November 30, the San Joaquin 5-Station Precipitation Index Water Year total was 9.2 inches, which is about 135 percent of the seasonal average to date and 22 percent of an average water year (40.8 inches). During November, the total precipitation for the 5-Stations was 2.8 inches, or about 59 percent of average for the month. Last year on November 30, the Water Year 2016 seasonal total for the 5-Stations was 7.0 inches, or about 103 percent of average.

On November 30, the Tulare Basin 6-Station Precipitation Index Water Year total was 3.5 inches, which is about 81 percent of the seasonal average to date and 11 percent of an average water year (29.3 inches). During November, the total precipitation for the 6-Stations was also 1.9 inches, or about 61 percent of average for the month. Last year on November 30, the Water Year 2016 seasonal total for the 6-Stations was 5.1 inches, or about 117 percent of average.

Daily Precipitation (in inches) for Selected Stations as of 11/30/2016					
Station	Oct 1 to Date 2016 - 2016	% Average	Season to Date 2015 - 2016	% Average	% Average Oct 1 - Sep 30
Mount Shasta	15.73	211	1.83	24	36
Eureka	15.30	201	5.98	79	38
Redding	11.43	179	1.65	26	33
South Lake Tahoe	8.23	168	3.68	75	40
Sacramento Executive Airport	5.66	193	1.69	57	31
Santa Rosa (Sonoma Co AP)	9.44	145	1.38	21	26
San Francisco	4.50	108	1.43	34	19
Stockton	3.95	161	2.13	87	28
Yosemite	8.78	136	8.22	128	23
Monterey	4.22	155	4.06	149	26
Paso Robles	2.58	160	1.28	80	20
Fresno	2.05	123	2.23	134	18
Bakersfield	0.62	67	0.75	82	10
Death Valley	0.05	21	1.08	450	2
Los Angeles	1.39	84	0.46	28	9
Riverside	1.72	139	0.46	37	14
Palm Springs	0.27	28	0.13	14	5
San Diego	0.63	41	1.97	128	6

Key Reservoir Storage (1,000 AF) as of 11/30/2016								
Reservoir	River	Storage	Avg Storage	% Average	Capacity	% Capacity	Flood Control Encroachment	Total Space Available
Trinity Lake	Trinity	1,104	1,587	70	2,448	45	---	1,344
Shasta Lake	Sacramento	2,910	2,705	108	4,552	64	-342	1,642
Lake Oroville	Feather	1,486	2,138	69	3,538	42	-1,550	2,052
New Bullards Bar Res	Yuba	669	529	126	966	69	-127	297
Folsom Lake	American	447	468	95	977	46	-130	530
New Melones Res	Stanislaus	529	1,355	39	2,400	22	-1,441	1,891
Don Pedro Res	Tuolumne	1,358	1,320	103	2,030	67	-332	672
Lake McClure	Merced	387	450	86	1,025	38	-288	638
Millerton Lake	San Joaquin	297	219	136	520	57	-138	223
Pine Flat Res	Kings	208	371	56	1,000	21	-426	792

Isabella	Kern	88	156	57	568	16	-82	480
San Luis Res	(Offstream)	867	1,225	71	2,041	42	---	1,172

The latest National Weather Service Climate Prediction Center (CPC) long-range, 1-month precipitation outlook for January 2017, issued December 15, 2016, suggests average precipitation for all of California, except for the southern fourth of the State where below average precipitation is expected.